

FIG. 3A-1

400 RNGRKIVKCF T KG - RI KGP I	480 RPEPTAPPEE A A	
D13 390 ATIMMQRGNF N T A	470 EPTAPPFLQS	A-2
380 EAMSQVTNS- P- A T A V	460 RPGNFLQSRP	FIG. 3A-2
350 370 380 400  DAATLE EMMTACQGVG GPGHKARVLA EAMSQVTNS- ATIMMQRGNF RNQRKIVKCF  G S A T A KG - RI  G S A T A KG - RI	430 440 450 460 470 480 EGHQM KDCTERQANF LGKIWPSYKG RPGNFLQSRP EPTAPPFLQS RPEPTAPPEE	
360 EMMTACQGVG	440 KDCTERQANF	510 TSLRS LFGNDPSSQ A K QL
350 KALGPAATLE G	430 WKCGKEGHQM R R L	510 ELYPLTSLRS A K
330 340 NWMTETLLVQ NANPDCKTIL KALGP	410 420 NCGKEGHIAR NCRAPRKKGC WKCGK K L K	500 PSQKQEPIDK ELYPL QK QK
330 NWMTETLLVQ	410 NCGKEGHIAR K	490 SFRSGVETTT F F E K GF E IK- GF E I -
LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI

Central Region: Q

80 GLHTGERDWH Q K	160 AALITPKKIK T T A TR T A Q	• •. •
10 20 30 40 50 60 70 80 80 80 menrwqvmiv wqvdrmrirt wkslvkhhmy vsgkargwfy rhhyesphpr issevhiplg darlvittyw glhtgerdwh i k k v v k v v v k v k v k v k v k v k	90 100 110 120 130 140 150 160 LGGGVSIEWR KKRYSTQVDP ELADQLIHLY YFDCFSDSAI RKALLGHIVS PRCEYQAGHN KVGSLQYLAL AALITPKKIK KN I YR H Q L D E Q I D T T A TR	
60 ISSEVHIPLG V V	140 PRCEYQAGHN D	FIG. 38-1
50 RHHYESPHPR T R K K	130 RKALLGHIVS KN I YR Q I D	E E
40 VSGKARGWFY I K K K KN K NR	120 YFDCFSDSAI E	Н9
30 WKSLVKHHMY H	110 ELADOLIHLY G D G	190 KGHRGSHTMN GH .R
20 WQVDRMRIRT K	100 KKRYSTQVDP K Q L	180 EDRWNKPQKT Q
10 MENRWQVMIV	90 LGGGVSIEWR H	170 180 PPLPSVTKLT EDRWNKPQKT K R 0
LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV ELI

FIG. 3B-1

 $\propto$ 

80 -RIGCRHSR Q Q	· .	O.
SO 40 50 60 70 80 80 ELLEELKNEA VRHFPRIWLH GLGQHIYETY GDTWAGVEAI IRILQQLLFI HFRIGCRHSR S Q 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 70	TCYCKKC CFHCQVCFTT KALGISYGRK KRRQRRRPPQ GSQTHQVSLS KO N Y A R G K Y M I G K H Y P LN G G A PIP
60 GDTWAGVEAI E V	09	KRRGRRRPPQ A G
GLGQHIYETY S S S S	20	KALGISYGRK G G G
40 VRHFPRIWLH P	04	CFHCQVCFTT YAR YMI YPLN
30 ELLEELKNEA R 0 S	30	<b>レフフフ</b>
20 QREPHNEWTL Y A	-NGASRS R - S - S - S	MEPVDPRLEP WKHPGSQPKT ACT
10 20 MEGAPEDQGP QREPHNEWTL Y A Y A	90 IGVTQQRRAR -NGASRS II	MEPVDPRLEP N D N D N
LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI

FIG. 3B-2

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40 50 60 70 80 EQTRANSPTR RELQVWGRDN NSLSEAGADR QGTVSFNFPQ ITLWQRPLVT GE I S V A ITLE I S A A	110 120 130 140 150 160 LEEMSLPGRW KPKMIGGIGG FIKVRQYDQI LIEICGHKAI GTVLVGPTPV NIIGRNLLTQ N K IN K IN K N K N K	190 200 210 220 230 240 GPKVKQ WPLTEEKIKA LVEICTEMEK EGKISKIGPE NPYNTPVFAI KKKDSTKWRK R T KD L <sub>R</sub> I	270 280 300 310 320 AGLKKK KSVTVLDVGD AYFSVPLDED FRKYTAFTIP SINNETPGIR YQYNVLPQGW S
QGTVSFN I S	GTVLVGP I	NPYNTPV	SINNETP(
O 60 N NSLSEAGADR - KT T E	140 LIEICGHKAI PV K P @	220 EGKISKIGPE <sup>L</sup> R	300 FRKYTAFTIP S
50 RELQVWGRDN GE R G	130 FIKVRQYDQI	210 LVEICTEMEK Ț KD Ţ D	290 AYFSVPLDED K
EQTRANSPTR	120 KPKM1GG1GG	200 WPLTEEKIKA	70 280 KK KSVTVLDVGD
30 TRANSPTFSS	110 LEEMSLPGRW N K IN K	190 PGMDGPKVKQ R	270 IPHPAGLKKK
20 GKARËFSSEQ G L PK	100 LLDTGADDTV	170 180 IGCTLNFPIS PIETVPVKLK PGMDO	260 TQDFWEVQLG
10 FFREDLAFLQ N P	90 100 JKIGGQLKEA LLDTGADDTV R VRV	170 IGCTLNFPIS	250 260 LVDFRELNKR TQDFWEVQLG IPHP/ N
LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI

FIG. 3C-1

	•	• •
400 EPPFLWMGYE	480 AENREILKEP	510 520 530 540 550 560 TYQIYQ EPFKNLKTGK YARTRGAHTN DVKQLTEAVQ KITTESIVIW GKTPKFKLPI OY IKS AQ R R S R R
390 LTTPDKKHQK F F F R	470 PLTEEAELEL A	550 KITTESIVIW VS AQ R S
330 340 400 KGSPAIFQSS MTKILEPFRK QNPDIVIYQY MDDLYVGSDL EIGQHRTKIE ELRQHLLRWG LTTPDKKHQK EPPFLWMGYE T K E F F	430 440 450 460 470 480 QKLVGK LNWASQIYPG IKVRQLCKLL RGTKALTEVI PLTEEAELEL AENREILKEP A K A DIV A	540 DVKQLTEAVQ
370 EIGQHRTKIE	450 IKVRQLCKLL K K	530 YARTRGAHTN M IKS M
360 MDDLYVGSDL	. 440 LNWASQIYPG	520 EPFKNLKTGK '
40 350 RK QNPDIVIYQY TKEM	430 VNDIQKLVGK N ER	510 QGQWTYQIYQ H
340 MTKILEPFRK T	410 420 LHPDKWTVQP IVLPEKDSWT VNDIO M Q D E S K E	500 DLIAEIQKQG
330 KGSPAIFQSS	410 LHPDKWTVQP S	490 500 VHGVYYDPSK DLIAEIQKQG QGQWT V
LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV EL I	LAV BRU ARV 2 LAV MAL LAV ELI

FIG. 3C-2

570 580 600 610 620 630 640 QKETWETWWT EYWQATWIPE WEFVNTPPLV KLWYQLEKEP IVGAETFYVD GAASRETKLG KAGYVTNRGR QKVVTLTDTT A M C D SIA I N K D SIA A A	670 680 690 700 710 720 TDSQYAL GIIQAQPDKS ESELVNQIIE QIIKKEKVYL AWVPAHKGIG GNEQVDKLVS I Q D S	800 DCTHLEGKVI I	880 NPQSQGVVES
630 KAGYVTNRGR D D	710 AWVPAHKGIG S	790 VDCSPGIWQL	870 GIKQEFGIPY N
620 GAASRETKLG N N N	700 QIIKKEKVYL Q D	780 QLKGEAMHGQ	860 TTVKAACWWA AA AA
610 IVGAETFYVD I	690 ESELVNQIIE I	750 770 780 790 800 KYHSNWRAMA SDFNLPPVVA KEIVASCDKC QLKGEAMHGQ VDCSPGIWQL DCTHLEGKVI I I	830 840 850 860 870 880 AYFLLK LAGRWPVKTI HTDNGSNFTS TTVKAACWWA GIKQEFGIPY NPQSQGVVES I VV AA AA N
600 KLWYQLEKEP T	680 6110AQPDKS	760 SDFNLPPVVA I	840 LAGRWPVKTI
590 WEFVNTPPLV	670 NIVTDSQYAL	750 KYHSNWRAMA N	830 GOETAYFLLK I
580 EYWQATWIPE	660 LALQDSGLEV S	740 GIDKAQDEHE E E	820 IEAEVIPAET
570 QKETWETWWT A M A	650 660 NOKTELQAIH LALQDSGLEV N	730 740 AGIRKVLFLD GIDKAQDEHE S Q E	810 820 LVAVHVASGY IEAEVIPAET I
LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI

FIG. 3D-1

096	RVYYRDSRDP	¥z ·			
950	QKQITKIQNF	П			
940	IATDIQTKEL		·	RQDED	9
930	YSAGERIVDI	E III	1010	KVVPRR KAKIIRDYGK QMAGDDCVAS RQDED	9 9
920	NFKRKGG1GG	RR	1000	KAKIIRDYGK	>
910	TAVQMAVFIH		066	NSDIKVVPRR	¥
006	QVRDQAEHLK	ш	086	KGEGAVVIQD	
890	MNKELKKIIG QVRDQAEHLK TAVQMAVFIH NFKRKGGIGG YSAGERIVDI IATDIQTKEL QKQITKIQNF RVYYRDSRDP N	:	970	LWKGPAKLLW KGEGAVVIQD NSDI	<b>—</b>
	BRU 2	LAV MAL LAV ELI			LAV MAL LAV ELI

FIG. 3D-2

EN

OMP	30 40 50 60 70 80 GILMI ČSATEKLWVT VYYGVPVWKE ATTTLFČASD AKAYDTEVHN VWATHAČVPT M T IA D T ADN	90 100 110 120 130 140 150 160 DPNPQEVVLV NVTENFNMWK NDMVEQMHED IISLWDQSLK PČVKLTPLČV SLKČTDL-CN ATNTNSSNTN SSSGEMMME- C N Q N CTNACS RTNA LK I T N NVN T V GTNACS RTNA LK I T N S EL RN GTMG NV TTEEKG	200 230 240 TTSYTLTS CNTSVITGAC PKVSFEPIPI HYCAPAGFAI S T TNYTN R IN R DNS R IN A SST -NSTN R IN A	270 280 300 310 320 IRPVV STOLLLNGSL AEEEVVIRSA NFTDNAKTI'I VOLNOSVEIN ČTRPNNNTRK  K  FIG. 3E-1  FIG. 3E-1
SP	30 L 4 GTMLLGILMI ČSATEKLWV - L M T IA D - I A D	110 12 NDMVEQMHED IISLWDQSL N N	190 YKLD IIPIDND RN VV A N LVQ DS R	270 280 OCTHGIRPVV STOLLLNGSL A K FIG. 3E-1
	MRVKEKY QHLWRWGWKW ( K GTRRN REIGRN ARGIERN© NW	90 100 DPNPQEVVLV NVTENFNMWK I C IE E IA E	KGEIKNČSFN ISTSIRGKVQ KEYAFF T D I N L TPVGSD R - T M VT VLKD K QV L	250 260 LKČNKKTFNG TGPČTNVSTV QČTHG K D K RD K RD K
	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI

400 HSFNCGGEFF R R	480 LTRDGGNN T -V NSSD I	560 GARSMTLTVQ V L A L
390 SSGGDPEIVT M T	470 RCSSNITGLL S N L I	TMP 550 GFLGAAGSTM
SIRIQRGPGR AFVTIGK-IG NMRQAHCNIS RAKWNATLKQ IASKLREQFG NNKT-IIFKQ SSGGDPEIVT HSFNCGGEFF  Y	CSNNTEGSDT ITLPCRIKOF INMWQEVGKA MYAPPISGQI RCSSNITGLL LTRDGGNN RTEG K N I KT A V N L I NSSD T -V T = S STGS T = NSTNTN Q I K VAGR- I ERN L I NSSD	540 AVGI-GALFL V M I L- M I L- M
370 IASKLREQFG VK VV GSLL- VR GTLL-	450 INMWQEVGKA KT K VAGR-	530 KRRVVQREKR A E
360 RAKWNATLKQ Q N E ETE DK Q	.440 ITLPCRIKQF I Q I	520 EPLGVAPTKA I
350 NMRQAHCNIS DI K DI R Y T N IIG	430 CSNNTEGSDT RTEG K N - S STGS TES NSTNTN	510 ELYKYKVYKI I R Q
340 AFVTIGK-IG W T RI LY T I-V SLY TKS-RS		500 GGDMRDNWRS
330 SIRIQRGPGR Y Q G HF Q RTP L Q	YCNSTQLFNS TWFNSTWSTE T NRLN TSK Q NGARL- TSG NI A NNI	490 500 510 520 530 TMP 550 560 NGSEIFRPG GGDMRDNWRS ELYKYKVVKI EPLGVAPTKA KRRVVQREKR AVGI-GALFL GFLGAAGSTM GARSMTLTVQ V L SDN TL I R R E I L- M A L STN T
LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI

# FIG. 3E-2

640 SLE D	720 VFA I	800 IVT AA A A A	•
O 6 W NASWSNKS S R	0 7. G GLVGLRIVI I I	O 80 H RLRDLLLIV	) GLERILL F A
630 KLIČTTAVPW H F	710 YIKIFIMIVG R IV	790 LRSLCLFSYH N	870 IRHIPRRIRQ L H L U
QLLGIWG R M	NWFNITNWLW S SK S Q	750 780 800 800 800 PEGIEEEGGE RDRDRSIRLV NGSLALIWDD LRSLCLFSYH RLRDLLLIVT P D F S N I AA A A A A A A A A A A A A A A A A	860 IEVVQGAÇIRA A R Y IG RFG II R
610 LAVERYLKDQ R Q	690 LELDKWASLW	770 RDRDRSIRLV QG G V L	850 I AVAEGTDRV T
60.0 WGIKQLQARI W	680 NQQEKNEQEL I K	760 PEGIEEEGGE J	840 SAVSLLNATA M I T S FD I
590 AQQHLLQLTV	670 LINSLIEESQ TYTL IYN	PTF V A	830 LQYWSQELKN I G
580 QQNNLLRAIE	660 WDREINNYTS E D N EK S G EK D G	740 GYSPLSFQTH R L L	820 WEALKYWWNL DI L
570 AROLLSGIVO	650 660 670 680 690 700 710 720 QIWNNMTWME WDREINNYTS LINSLIEESQ NQQEKNEQEL LELDKWASLW NWFNITNWLW YIKIFIMIVG GLVGLRIVFA S D N T YT L S S S S S S D I N T I I E G E D G Y T K	730 740 VLSIVNRVRQ GYSPLSFQTH 1 R L L L L	810 820 830 840 850 860 870 RIVELLGRRG WEALKYWWNL LQYWSQELKN SAVSLLNATA IAVAEGTDRV IEVVQGAÇIRA IRHIPRRIRQ GLERILL T A R Y L H G I F A L F A I I R VLN
LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI	LAV BRU ARV 2 LAV MAL LAV ELI

FIG. 3F-1

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80 VGFPV	160 VPVEP HS D	
EE-EE E SD	WCYKL' F F E	·
70 WLEAQ PP	150 PLTFG	
NAACA D S - D	PGVRY I I F	
60 NTAAT SP N	140 NYTPC	<b>(</b> )
RRAEPA ADGVGAASRDLEKUG AITSSNTAAT NAACAWLEAQ EE-EEVGFPV RAEP RAEP V TP T ET V QD AVSQ D C AA SP N S PP E TM V OD AVSQ D C AA SP N S PP E TM S PP E	110 120 130 140 150 160 LKEKGGLEGL IHSQRRQDIL DLWIYUTQGY FPDWQNYTPC PGVRYPLTFG WCYKLVPVEP D VW PK E V I I F F HS W KK E V N I	190 200 210 SIMDDPEREV LEWRFDSRLA FHHVARELHP EYFKNC E A K V K M M Y D E A K V K S LR R Q Y D E A K N E K M FY -
50 LEKUG D C	130 UTQGY N I	210 RELHP Q
D  AVSQ 	13 DLWIYUTQG V V N	FHHVAI M LR R E K
40 AASR- V Q _ V QD		200 DSRLA K S
ADGVG ET	IHSQR VW PK W KK	LEWRY XXX XXI
30 RAEPA TP T	110 GLEGL D	190 PEREV A K A
R	LKEKG	HGMDD E
20 /RERM [ I	100 DLSHF	180 HPVSL M I Q I CQ
VGWPT G SA K	YKAAV G F E L	180 NTSLLHPVSL N M M NC I Q
10 MGGKWSKSSV VGWPTV R M G SAI I KI	90 100 TPQVPLRRHT YKAAVDLSHF R R G F R	170 DKVEEANKGE E E OE DTE
MGGKW	TPQVP R R	DKVEE E OE
BRU 2 MAL ELI	BRU 2 MAL EL I	BRU 2 MAL ELI
LAV ARV LAV	LAV ARV LAV LAV	LAV LAV LAV

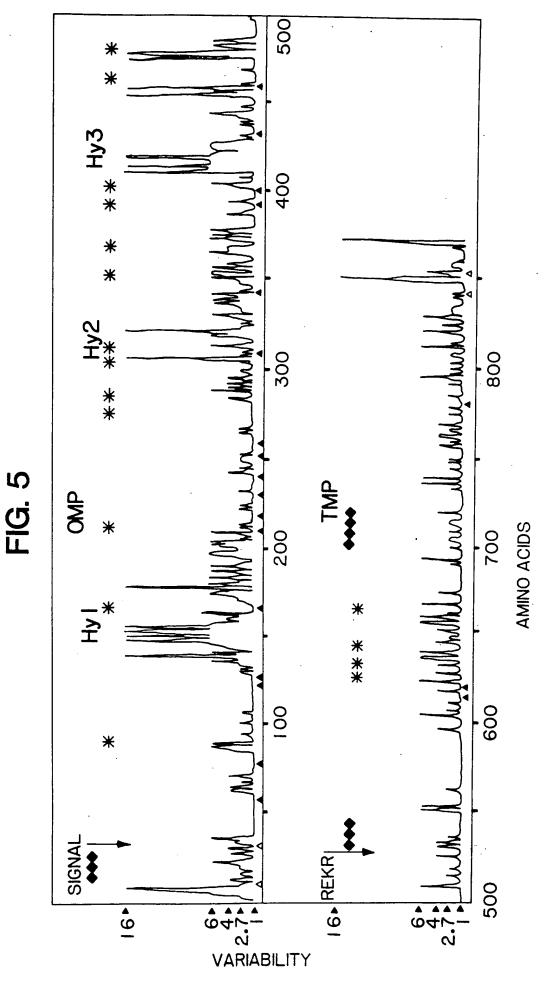
-1G. 3F-2

### FIG. 4A

Ø	A LAVbru		<u> </u>	٥	2			ENS			
	VS.	<u>პ</u>	SAS	-	4	10	TOTAL	Ó	OMP	TMP	<b>₽</b>
	HTLV-3 USA	512	512 <b>0.8</b> 1015 0/0	1015	<b>1.3</b> 856 5/0	856 570	4.1	1.4 507 1.6 349 5/0 0/0	9.1	349	-
	ARV-2	502 12/2	3.4	1003	1003	855 17/11	13.0	505 1/7/10	14.3	350	11.2
•	LAVeli ZAIRE	500 9.8	9.8	1002 13/0	5.5	853 <b>2</b> C 22/14	853 <b>20.7</b> 504 <b>25.3</b> 349 <b>13.8</b> 22/14	504 <b>25.</b> 22/14	25.3	349 0/0	13.8
·	LAVmal 505   2.0   1002   7.7   859   21.7   509   26.4   350   14.9   2AIRE   14.7   13.7   10   13.7   10   10.1   13.7   10   10.1	505	12.0	1005	7.7	859  3/11	21.7	509	26.4	350	4.9
m	LAVeli vs.										
	LAVmal	505 1/6	0.8	005	505   <b>10.8</b>   002   <b>8.4</b>   859   <b>19.8</b>   509   <b>23.6</b>   071   <b>1.3</b>	59   6	9.8 8,	509 2	3.6	550	4.3

#### FIG. 4B

Ø	A LAVbru	orf F	Se	central region	regi	- Lo		
	VS.		orf Q	C	o o	orf R	o	orf S
	HTLV-3 USA	206 <b>1.5</b> 0	192	0		٦	80 0/0	80 2.5
	ARV-2 USA	.2 210 12.6 192 10.0 97 9.4 81 USA 0/1	1921	0.0	97	9.4	81	15.0
	LAVeli 206 ZAIRE 171	19.4	192 10.4 96 11.5 80 27.5	0.4	96	7.5	80	27.5
	LAVmal ZAIRE	AIRE 2/5 27.0 192 12.6 96 10.4 80 23.8	192	2.6	96	10.4	80	23.8
æ	LAVeli vs.							
	LAVmal	209 22.5 192 12.0 96 3/6 0/0 12.0 0/0	192 12	0.1	96	96 6.3 80 11.3	80	5.1



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ACA	ACA	ACA	TACA
D GAC	ე <u>ე</u>	A	GAC
i		A CT	
		A GCA	
,	1	A GCA	
ı	ı	CAG	1
l	GCT -	CAG	1
1	A GCA	GCA	
A GCT	AGCT	A GCT	AGCT
A GCA	A GCA	A GCA	A GCA
A GCA	6CA	A GCA	A GCA
CAA	CAA	0 CAG	CAA
O CAG	cA6	A CAG	0 CAG
A GCA	GCA	ACA	A GCA
K AAA	K AAG	K AAG	X AAG
LAV.BRU	ARV 2	LAV.MAL	LAV.ELI

## FIG. 6A-1

LAV.BRU

Q

480	E GAG	E GAG	E GAG	E GAG
	GAA	E E E	A E	A EGE
	GCC CCA CCA TTT CTT CAG AGC AGA CCA GAG CCA ACA GCC CCA CCA		1	1
	CCA	į.	ı	1
	A GC(	ı	t	1
	A AC	ı	i	1
	) ) )	ı	1	1 .
	A GA	ı	ı	ı
	R E	1	ı	1
470	S GC A	t	1	1
7	Q AG A	. •		I
	L 2TT 0	!		1
	14 14 10 10 10 10 10 10 10 10 10 10 10 10 10	,	1	
	CCA	. CCA	- CCA	- CCA
	CCA	A P P B GCC CCA CCA	A P P CA	A P P
	A GCC	A GCC	A 6CC	A GCC
	ACA		T ACA	T ACA
	CCA	CCA	P	CCA
	4 GAG	E GAG	E GAG	E GAG
460	A CC/	A CCA	P CCA	A CCA
7	C AG	C AG	C AG/	R C AG⊄
	NG AG	) S 16 AG	6 AG	A AG
		ÎT CA	TT CA	C CA
	F C.	F CI	ר דר כן	TT CT
L	NAT	N AT T	AL AT T	LI N AC T
	GGG AAT TIT CTT CAG AGC AGA CCA GAG CCA ACA	ARV'2 G N F L Q S R P E P T GGG AAT TTT CTT CAG AGC AGA CCA GAG CCA ACA	LAV.MAL G N F L Q S R P E P T GGG AAT TTC CTT CAG AGC AGA CCA GAG CCA ACA	LAV.ELI G N F L Q S R P E P T GGG AAC TTT CTC CAA AGC AGA CCA GAG CCA ACA
				_

# FIG. 6A-2

		<b>—</b>							
30	A GCA	GCA	ACA	T GCA		D GAC	D GAC	D GAT	D GAC
	CCA	CCA	CCA	CCA		1	ı	CAA	1
	E GAG	E GAG	٦ 2 2	P AAT		1	1	STCT	1
	GCT (	GCT	TACT	ACT ,		1	1	V S GTA TCT	1
	CGA	CGA	R CGA	R AGA		1	1	A GCA	1
	ł	CCA	1.	ı		1	1	DAT	ı
	1	EGAG	1	ı	04	R CGA	R CGA	CAA	R CGA
	1	3CT	1	I		S TCT	· A TCT	ST	S TCT
	1	AGA CGA	1	l		A GCA	V GTA	>TS	V GTA
20	R AGA	AGA	R. AGA	R AGA		A GCA	A GCA	GCA	SCA
	M ATG	M ATG	ATA	ATA		6 66A	6 66A	66A	GGA (
	R AGA	R AGA	R AGA	R AGA		V GTG	V 6T6	V GGA	V GTA
	•								
	BRU	7	MAL	EL I		BRU	2	MAL	ELI
	LAV,BRU	ARV	LAV.MAI	LAV.EL		LAV.BRU	ARV 2	LAV.MAL	LAV,ELI
S					D				

FIG. 6A-3

EN

b

CTC LAV. BRU CAG CAC TTG TGG ACA TGG GGC TGG AAA TGG GGC ACC ATG

20

L CTC L TT6 ACC TE TEG AGA TEG GEC CAC Q CAG ARV 2

L CTC M ATG M ATG LAV.MAL CAA AAC TGG TGG AGA TGG GGC

L CTC LAV.ELI CAA AAC TGG TGG AAA TCG GGC

6B-1

<u>되</u>

150

140

666 GAA - GGG AAT GCT ACT AAT ACC AAT AGT AGT ACC AAT AGT AGT AGC GCA GAG ATA TTG K AAA ACT GAT TEACT GAG - A 29 20 20

GCA GAG M ATG M ATG

K AAG

LAV.BRU

ARV 2

 $^{\rm M}_{
m AAT}$ TTA AAT TGC ACT GAT TTG - GGG AAG GCT ACT AAT ACC AAT AGT AGT

W K E E I K G E I

TGG AAA GAA ATA AAA GGA GAA ATA

LAV.MAL

THA AAC TGC ACT AAT GTG AAT GGG ACT GTG AAT GGG ACT AAT GCT GGG AGT AAT AGG ACT AAT GCA GAA

L K M E I G E V TTG AAA ATG GAA ATT - GGA GAA GTG

LAV.ELI

THE AGG AAC AAT GGC ACT ATG GGG AAC AAT GTC ACT ACA GAG GAG AAA L N C S D E

- - - - - AT(

FIG. 6B-2

Y T L TAT ACG TTG Y R L TAT AGG CTA GAT AAT GCT AGT ACT ACC AAC TAT ACC AAC TAT AGG TTG B N D S S T N S T N Y R L GAC AAT GAT AGT ACC - AAT AGT ACC AAT TAT AGG TTA GAT GAT AGT GAT AAT AGT AGT - -D N D T T S GAT AAT GAT ACT ACC AGC -LAV,BRU LAV, ELI LAV, MAL

FIG. 6B-3

LAV, BRU

TGT AAT TCA ACA CAA CTG TTT AAT AGT ACT TGG TTT AAT AGT ACT TGG AGT ACT GAA GGG TCA AAT AAC ACT GAA GGA
S D T I
AGT GAC ACA ATC

ARV 2

AGG TTA AAT CAC ACT GAA GGA ACT AAA GGA C N T T Q L F N N T W T TGT TGT AAT ACA TGG

D T I GAC ACA ATC

LAV. MAL

S N S T E S AGT AAT AGC ACA GAG TCA 

LAV, EL I

C N T S G L FT N S T W N I T S G AAT AGT ACA TGG AAT ATT AGT GCA TGG AAT AAT ATT ACA GAG TCA AAT AAT AGC ACA N T N I AAC ACA AAC ATC

FIG. 6B-4

LAV. MAL

R |GGTCTCTCTTGTTAGACCAGGTCGAGCCCGGGAGCTCTCTGGCTAGCAAGGAACCCACTG CTTAAGCCTCAATAAAGCTTGCCTTGAGTGCCTCAAGCAGTGTGCCCATCTGTTGTGT GACTCTGGTAACTAGAGATCCCTCAGACCACTCTAGACGGTGTAAAAATCTCTAGCAGTG GCGCCCGAACAGGGACTTTAAAGTGAAAGTAACAGGGACTCGAAAGCGGAAGTTCCAGAG AAGTTCTCTCGACGCAGGACTCGGCTTGCTGAGGTGCACACAGCAAGAGGCGAGAGCGGC →GAG 300 AlaSerValLeuSerGlyGlyLysLeuAspAlaTrpGluLysIleArgLeuArgProGlyAGCGTCAGTATTAAGCGGGGGAAAATTAGATGCATGGGAGAAAATTCGGTTAAGGCCAGG 400 GlyLysLysLysTyrArgLeuLysHisLeuValTrpAlaSerArgGluLeuGluArgPhe GGGAAAGAAAAATATAGACTGAAACATTTAGTATGGGCAAGCAGGGAGCTGGAAAGATT AlaLeuAsnProGlyLeuLeuGluThrGlyGluGlyCysGlnGlnIleMetGluGlnLeuCGCACTTAACCCTGGCCTTTTAGAAACAGGAGAAGGATGTCAACAAATAATGGAACAGCT 500 GlnSerThrLeuLysThrGlySerGluGluIleLysSerLeuTyrAsnThrValAlaThr ACAATCAACTCTCAAGACAGGATCAGAAGAAATTAAATCATTATATAATACAGTAGCAAC LeuTyrCysValHisGlnArgIleAspValLysAspThrLysGluAlaLeuAspLysIle CCTCTATTGTGTACATCAAAGGATAGATGTAAAAGACACCAAGGAAGCGCTAGATAAAAT AlaAlaAlaThrLysAsnSerSerSerValSerGlnAsnTyrProIleValGlnAsnAla AGCAGCTGCCACAAAAACAGCAGCAGTGTCAGTCAAAATTACCCCATAGTGCAAAATGC GlnGlyGlnMetIleHisGlnAlaIleSerProArgThrLeuAsnAlaTrpValLysVal ACAAGGGCAAATGATACATCAGGCCATATCACCTAGGACTTTGAATGCATGGGTGAAAGT 800 IleGluGluLysAlaPheSerProGluValIleProMetPheSerAlaLeuSerGluGiy AATAGAAGAAAAGGCTTTCAGCCCAGAAGTGATACCCATGTTCTCAGCATTATCAGAGGG AlaThrProGlnAspLeuAsnMetMetLeuAsnIleVaiGlyGlyHisGlnAlaAlaMet GGCCACCCCACAAGATTTAAATATGATGCTGAACATAGTTGGAGGACACCAGGCAGCTAT GlnMetLeuLysAspThrileAsnGluGluAlaAlaAspTrpAspArgValHisProValGCAAATGTTAAAAGATACCATCAATGAGGAAGCTGCAGACTGGGACAGGGTACATCCAGT 1000 HisAlaGlyProIleProProGlyGlnMetArgGluProArgGlySerAspIleAlaGly ACATGCAGGGCCTATTCCCCCAGGCCAGATGAGAGAACCAAGAGGAAGTGACATAGCAGG

ThrThrSerThrLeuGlnGluGlnIleGlyTrpMetThrSerAsnProProIleProValAACTACTAGTACCCTTCAAGAACAAATAGGATGGATGACAAGCAACCCACCTATCCCAGT 1100 1200 ProvalSerIleLeuAspileArgGlnGiyProLysGluProPheArgAspTyrValAsp CCCTGTCAGCATTTTGGACATAAGACAAGGGCCAAAGGAACCTTTTAGAGACTATGTAGA ArgPhePheLysThrLeuArgAlaGluGinAlaThrGlnGluValLysAsnTrpMetThr TAGGTTCTTTAAAACTCTCAGAGCTGAGCAAGCTACACAGGAGGTAAAAAATTGGATGAC 1300\_ GluThrLeuLeuValGlnAsnAlaAsnProAspCysLysThrIleLeuLysAlaLeuGiy AGAAACCTTGCTGGTCCAAAATGCGAATCCAGACTGTAAGACCATTTTAAAAGCATTAGG ProGlyAlaThrLeuGluGluMetMetThrAlaCysGlnGlyValGlyGlyProSerHis ACCAGGGGCTACATTAGAAGAAATGATGACAGCATGCCAGGGAGTGGGAGGACCCAGTCA 1400 LysAlaArgValLeuĀlaGluAlaMetSerGlnAlaThrAsnSerThrAlaAlaIleMet
TAAAGCAAGAGTTTTGGCTGAGGCAATGAGCCAAGCAACAAATTCAACTGCTGCCATAAT 1500 MetGlnArgGlyAsnPheLysGlyGlnLysArgIleLysCysPheAsnCysGlyLysGluGATGCAGAGAGTAATTTTAAGGGCCAGAAAAGAATTAAGTGTTTCAACTGTGGCAAAGA GlyHisLeuAlaArgAsnCysArgAlaProArgLysLysGlyCysTrpLysCysGlyLys AGGACACCTAGCCAGAAATTGCAGGGCCCCTAGGAAAAAGGGCTGTTGGAAATGTGGGAA 1600 r>P0L PhePheArgGluAsnLeu GluGlyHisGlnMetLysAspCysThrGluArgGlnAlaAsnPheLeuGlyLysIleTrp GGAAGGACACCAAATGAAAGACTGCACTGAGAGACAGGCTAATTTTTTAGGGAAAATTTG AlaPheProĠlnGlyLysAlaArgGluPheProSerGluĠlnThrArgAlaAsnSerPro ProSerHisLysGlyArgProGlyAsnPheLeuGlnSerArgProGluProThrAlaPro GCCTTCCCACAAGGGAAGGCCAGGGAATTTCCTTCAGAGCAGACCAGAGCCAACAGCCCC 1700 ThrSerArgGluLeuArgValTrpGlyGlyAspLysThrLeuSerGluThrGlyAlaGlu ProAlaGluSerPheGlyPheGlyGluGluIleLysProSerGlnLysGlnGluGlnLys ACCAGCAGAGAGCTTCGGGTTTGGGGAGGAGATAAAACCCTCTCAGAAACAGGAGCAGAA 1800 ArgGlnGlyİleValSerPheSerPheProGlnIleThrLeuTrpGlnArgProValVal AspLysGluLeuTyrProLeuAlaSerLeuLysSerLeuPheGlyAsnAspGlnLeuSer AGACAAGGAATTGTATCCTTTAGCTTCCCTCAAATCACTCTTTGGCAACGACCAGTTGTC GAG ← ThrValArgValGlyGlyGinLeuLysGlüAlaLeuLeuAspThrGlyAlaAspAspThr Gln ACAGTAAGAGTAGGAGGACAGCTAAAAGAAGCTCTAŢŢĄGACACAGGAGCAGATGATACA ValleuGluGluIleAsnLeuProGlyLysTrpLysProLysMetIleGlyGlyIleGlyGTATTAGAAGAAATAAATTTGCCAGGAAAATGGAAACCAAAAATGATAGGGGGAATTGGA GlyPheIleLysValArgGinTyrAspGlnIleLeuIleGluIleCysGiyLysLysAlaGGTTTTATCAAAGTAAGACAGTATGATCAAATACTTATAGAAATTTGTGGAAAAAAAGGCT 2000

IleGlyThrIleLeuValGlyProThrProValAsnIleIleGlyArgAsnMetLeuThr ATAGGTACAATATTGGTAGGACCTACACCTGTCAACATAATTGGACGAAATATGTTGACT GlnIleGlyCysThrLeuAsnPheProIleSerProIleGluThrValProValLysLeuCAGATTGGTTGTACTTTAAATTTTCCAATTAGTCCTATTGAGACTGTACCAGTAAAATTA 2300 LysLeuValAsnPheArgGluLeuAsnLysArgThrGlnAspPheTrpGluValGlnLeuAAATTAGTGAATTTCAGAGAGCTTAATAAAAGAACTCAAGATTTTTGGGAAGTTCAATTA GlyIleProHisProAlaGlyLeuLysLysLysLysSerValThrValLeuAspValGlyGGAATACCACATCCTGCTGGGTTGAAAAAAAAAAAAATCAGTCACAGTATTGGATGTGGG 2400 AspAlaTyrPheSerValProLeuAspGluAspPheArgLysTyrThrAlaPheThrIle GATGCATATTTTCAGTCCCTTTAGATGAAGATTTCAGGGAAGTATACTGCATTCACTATA ProSerIleAsnAsnGluThrProGlyIleArgTyrGlnTyrAsnValLeuProGlnGlyCCCAGTATTAATAATGAGACACCAGGGATTAGATATCAGTACAATGTGCTACCACAGGGA TrpLysGlySerProAlaIlePheGlnSerSerMetThrLysIleLeuGluProPheArgTGGAAAGGATCACCAGCAATATTCCAGAGTAGCATGACAAAAATCTTAGAACCCTTTAGA 2700 LeuGluIleĠlyGlnHisArgThrLysIleGluGluLeuArgGluHisLeuLeuLysTrp TTAGAAATAGGACAACATAGAACAAAAATAGAGGAACTAAGAGAACATCTATTGAAATGG GlyPheThrThrProAspLysLysHisGlnLysGluProProPheLeuTrpMetGlyTyr GGATTTACCACACCAGACAAAAAGCATCAGAAAGAACCCCCCATTTCTTTGGATGGGGTAT GluLeuHisProAspLysTrpThrValGlnProIleGlnLeuProAspLysGluSerTrp GAACTCCACCCTGACAAATGGACAGTGCAGCCTATACAACTGCCAGACAAGGAAAGCTGG ThrValAsnAspIleGlnLysLeuValGlyLysLeuAsnTrpAlaSerGlnIleTyrPro ACTGTCAATGATATACAGAAATTGGTGGGAAAACTAAATTGGGCAAGTCAGATTTATCCA 2900 GlyIleLysValLysGlnLeuCysLysLeuLeuArgGlyAlaLysAlaLeuThrAspIle GGAATTAAAGTAAAGCAATTATGTAAACTCCTTAGGGGAGCAAAAGCACTAACAGACATA ValProLeuThrAlaGluAlaGluLeuGluLeuAlaGluAsnArgGluIleLeuLysGlu GTACCATTAACTGCAGAGGCAGAATTAGAATTGGCAGAGAACAGGGAAATTCTAAAAGAA

ProvalHisGlyValTyrTyrAspProSerLysAspLeuIleAlaGluIleGlnLysGlnCCAGTGCATGGGGTATATTATGACCCATCAAAAGACTTAATAGCAGAAATACAGAAGCAG GlyGlnGlyGlnTrpThrTyrGlnIleTyrGlnGluGlnTyrLysAsnLeuLysThrGly GGGCAAGGTCAATGGACATATCAAATATACCAAGAGCAATATAAAAATCTGAAAACAGGG LysTyrAlaArgIleLysSerAlaHisThrAsnAspValLysGlnLeuThrGluAlaVal AAGTATGCAAGAATAAAGTCTGCCCACACTAATGATGTAAAACAATTAACAGAAGCAGTG GlnLysIleAlaGlnGluSerIleValIleTrpGlyLysThrProLysPheArgLeuProCAAAAGATAGCCCAAGAAAGCATAGTAATATGGGGAAAAACTCCTAAATTTAGACTACCC 3300 IleGlnLysĠluThrTrpGluAlaTrpTrpThrGluTyrŤrpGlnAlaThrTrpIlePro ATACAAAAAGAAACATGGGAGGCATGGTGGACAGAATATTGGCAAGCCACCTGGATCCCT GluTrpGluPheValAsnThrProProLeuValLysLeuTrpTyrGlnLeuGluThrGluGAATGGGAGTTTGTCAATACTCCTCCCCTAGTAAAACTATGGTACCAGTTAGAAACAGAA 3400 ProIleValGlyAlaGluThrPheTyrValAspGlyAlaAlaAsnArgGluThrLysLys GlyLysAlaĠlyTyrValThrAspArgGlyArgGlnLysValValSerLeuThrGluThr GGAAAAGCAGGATATGTTACTGACAGAGGAAGACAAAAGGTTGTCTCCTTAACTGAAACA 3500 ThrAsnGlnLysThrGluLeuGlnAlaIleHisLeuAlaLeuGlnAspSerGlySerGluACAAATCAGAAGCTGAATTACAAGCAATCCACTTAGCTTTACAGGATCAGAA 3600 ValAsnIleValThrAspSerGlnTyrAlaLeuGlyIleİleGlnAlaGlnProAspLys GTAAACATAGTAACAGACTCACAGTATGCATTAGGGATTATTCAAGCACAACCAGATAAA SerGluSerĠluIleValAsnGlnIleIleGluGlnLeuİleGlnLysAspLysValTyr AGTGAATCAGAGATTGTTAATCAAATAATAGAGCAATTAATACAGAAGGACAAGGTCTAC LeuSerTrpValProAlaHisLysGlyIleGlyGlyAsnGluGlnValAspLysLeuValCTGTCATGGGTACCAGCACACAAGGGATTGGAGGAAATGAACAAGTAGATAAATTAGTC GlnValAspĊysSerProGlyIleTrpGlnLeuAspCysThrHisLeuGluGlyLysIleCAAGTAGACTGTAGTCCAGGGATATGGCAATTAGATTGCACACATCTAGAAGGAAAAATA IleIleValAlaValHisValAlaSerGlyTyrIleGluAlaGluValIleProAlaGlu ATCATAGTAGCAGTCCATGTAGCCAGTGGATATATAGAAGCAGAAGTTATCCCAGCAGAA ThrGlyGlnĠluThrAlaTyrPheIleLeuLysLeuAlaĠlyArgTrpProValLysValACAGGACAGGAGACAGCATACTTTATACTAAAATTAGCAGGAAGATGGCCAGTAAAAGTA 4100

ValHisThrAspAsnGlySerAsnPheThrSerAlaAlaValLysAlaAlaCysTrpTrpGTACACACAGACAATGGCAGCAATTTCACCAGTGCTGCAGTTAAAGCAGCCTGTTGGTGG 4200 AlaAsnIleLysGlnGluPheGlyIleProTyrAsnProGlnSerGlnGlyValValGluGCAAATATCAAACAGGAATTTGGAATTCCCTACAACCCCCAAAGTCAAGGAGTAGTGGAA SerMetAsnLysGluLeuLysLysIleIleGlyGlnValArgGluGlnAlaGluHisLeu TCTATGAATAAGGAATTAAAGAAAATCATAGGGCAGGTAAGAGAGCAAGCTGAACACCTT 4300 LysThrAlavalGlnMetAlaValPheIleHisAsnPheLysArgLysGlyGlyIleGlyAAGACAGCAGTACAAATGGCAGTGTTCATTCACAATTTTAAAAGAAAAGGGGGGGATTGGG GlyTyrSerAlaGlyGluArgIleIleAspMetIleAlaThrAspIleGinThrLysGluGGGTACAGTGCAGGGGAAAGAATAATAGACATGATAGCAACAGACATACAAACTAAAGAA 4400 LeuGlnLysGlnIleThrLysIleGlnAsnPheArgValTyrTyrArgAspAsnArgAsp TTACAAAAACAAATTACAAAAATTCAAAATTTTCGGGTTTATTACAGGGACAACAGAGAC 4500 ProlleTrpLysGlyProAlaLysLeuLeuTrpLysGlyGluGlyAlaValValIleGlnCCAATTTGGAAAGGACCAGCAAAACTACTCTGGAAAGGTGAAGGGGCAGTAGTAATACAG AspAsnSerAspIleLysValValProArgArgLysAlaLysIleIleArgAspTyrGly MetĜlu GACAATAGTGATATAAAGGTAGTACCAAGAAGAAAAGCAAAAATCATTAGGGATTATGGA 4600 POL← LysGlnMetAlaGlyAspAspCysValAlaGlyGlyGlnAspGluAsp
AsnArgTrpGlnValMetIleValTrpGlnValAspArgMetArgIleArgThrTrpHis
AAACAGATGGCAGGTGATGATTGTGTGGCAGGTGGACAGGATGAGGATTAGAACATGGCA SerLeuValLysHisHisMetTyrValSerLysLysAlaLysAsnTrpPheTyrArgHisCAGTTTAGTAAAACATCATATGTATGTCTCAAAGAAAGCTAAAAATTGGTTTTATAGACA 4700 HISTYrGluSerArgHisProLysValSerSerGluValHisIleProLeuGlyAspAla TCACTATGAAAGCAGGCATCCAAAAGTAAGTTCAGAAGTACACATCCCACTAGGGGATGC ArgLeuValValArgThrTyrTrpGlyLeuGlnThrGlyGluLysAspTrpHisLeuGly TAGATTAGTAGTAAGAACATATTGGGGTCTGCAAACAGGAGAAAAAGACTGGCACTTGGG HisGlyValSerIleGluTrpArgGlnLysArgTyrSerThrGlnLeuAspProAspLeuTCATGGGGTCTCCATAGAATGGAGGCAGAAAAGATATAGCACACAACTAGATCCTGACCT AlaAspGlnLeuIleHisLeuTyrTyrPheAspCysPheSerGluSerAlaIleArgGlnAGCAGACCAACTGATTCATCTGTACTATTTTGATTGTTTTTCAGAATCTGCCATAAGACA AlaIleLeuGlyHisIleValSerProArgCysAspTyrGlnAlaGlyHisAsnLysValAGCCATATTAGGACATATAGTTAGTCCTAGGTGTGATTATCAAGCAGGACATAACAAGGT 5000 GlySerLeuGlnTyrLeuAlaLeuThrAlaLeuIleAlaProLysLysThrArgProPro AGGATCTTTACAGTATTTGGCACTAACAGCATTAATAGCACCAAAAAAGACAAGGCCACC →R MetGluGlnAlaProAlaAspGlnGlv LeuProSerValArgLysLeuThrGluAspAngTrpAsnLysProGlnGlnThrLysGly TTTGCCTAGTGTTAGGAAGCTAACAGAAGATAGATGGAACAAGCCCCAGCAGACCAAGGG

ProGlnArgGluProHisAsnGluTrpThrLeuGluLeuLeuGluGluLeuLvsGlnGlu HisArgGlySerHisThrMetAsnGlyHis CCACAGAGGGAGCCACACAATGAATGGACATTAGAACTTTTAGAGGAGCTTAAGCAAGAA 5200 AlaValArgHisPheProArgIleTrpLeuHisSerLeuGlyGlnHisIleTyrGluThr GCTGTCAGACACTTTCCTAGGATATGGCTCCATAGTTTAGGACAACATATCTATGAAACT TyrGlyAspThrTrpGluGlyValGluAlaIleIleArgSerLeuGlnGlnLeuLeuPhe TATGGGGATACCTGGGAAGGAGTTGAAGCTATAATAAGAAGTCTGCAACAACTGCTGTTT 5300 IleHisPheArgIleGlyCysGlnHisSerArgIleGlyİleThrArgGlnArgArgAla ATTCATTTCAGAATTGGGTGTCAACATAGCAGAATAGGCATTACTCGACAGAGAAGAGCA Ř<del>( .</del> 5400 ArgAsnGlySerSerArgSer MetAspProValAspProAsnLeuGluProTrpAsnHisProGlySerGlnProArg AGAAATGGATCCAGTAGATCCTAACTTAGAGCCCTGGAACCATCCAGGGAGTCAGCCTAG ThrProCysAsnLysCysTyrCysLysLysCysCysTyrHisCysGlnMetCysPhelie GACGCCTTGTAATAAGTGTTATTGTAAAAAGTGCTGCTATCATTGCCAAATGTGCTTCAT 5500 ThrLysGlyLeuGlyIleSerTyrGlyArgLysLysArgArgArgArgArgArgProProAACGAAAGGCTTAGGCATCTCCTATGGCAGGAAGAAGCGGAGACAGCGACGAAGACCTCC GTGGACCATÁGTATTTATAĠAAATTAGGAÁAATAAGAAGÁCAAAGGAAAÁTAGACAGGTT <del>></del>ENV GATTGATAGAATAAGAGAAAGAGCAGAAGATAGTGGCAATGAGAGTGAGGGAGATACAGA 5800 AsnTyrGlnAsnTrpTrpArgTrpGlyMetMetLeuLeuGlyMetLeuMetThrCysSer GGAATTATCAAAACTGGTGGAGATGGGGCATGATGCTCCTTGGGATGTTGATGACCTGTA IleAlaGluAspLeuTrpValThrValTyrTyrGlyValProValTrpLysGluAlaThr GTATTGCAGAAGATTTGTGGGTTACAGTTTATTATGGGGTACCTGTGTGGAAAGAAGCAA ThrThrLeuPheCysAlaSerAspAlaLysSerTyrGluThrGluValHisAsnIleTrp CCACTACTCTATTTTGTGCATCAGATGCTAAATCATATGAAACAGAAGTACATAACATCT AlaThrHisAlaCysValProThrAspProAsnProGinGluIleGluLeuGluĂsnVal GGGCTACACATGCCTGTGTACCCACGGACCCCAACCCACAAGAAATAGAACTGGAAAATG ThrGluGlyPheAsnMetTrpLysAsnAsnMetValGluGlnMetHisGluAspIleile TCACAGAAGGGTTTAACATGTGGAAAAATAACATGGŢĢĢAGCAGATGCATGAGGĀTĀTĀĀ

SerLeuTrpAspGlnSerLeuLysProCysValLysLeuThrProLeuCysValThrLeuTcAGTTTATGGGATCAAAGCCTAAAACCATGTGTAAAGCTAACCCCACTCTGTGTCACTT AsnCysThrAsnValAsnGlyThrAlaValAsnGlyThrAsnAlaGlySerAsnArgThr TAAACTGCACTAATGTGAATGGGACTGCTGTGAATGGGACTAATGCTGGGAGTAATAGGA 6200 AsnAlaGİuLeuLysMetGluIleGlyĠluValLysAsnCysSerPheAsnIleThrÞro CTAATGCAGAATTGAAAATGGAAATTGGAGAAGTGAAAAACTGCTCTTTCAATATAACCC ValGlySerAspLysArgGlnGluTyrAlaThrPheTyrAsnLeuAspLeuValGlnIle CAGTAGGAAGTGATAAAAGGCAAGAATATGCAACTTTTTATAACCTTGATCTAGTACAAA AspAspSerAspAsnSerSerTyrArgLeuIleAsnCysAsnThrSerValIleThrGln TAGATGATAGTGATAATAGTAGTTATAGGCTAATAAATTGTAATACCTCAGTAATTACAC 6400 AlaCysProLysValThrPheAspProileProileHisTyrCysAlaProAlaGlyPhe AGGCTTGTCCAAAGGTAACCTTTGATCCAATTCCCATACATTATTGTGCCCCAGCTGGTT AlaIleLeuLysCysAsnAspLysLysPheAsnGlyThrGluIleCysLysAsnValSerTTGCAATTCTAAAGTGTAATGATAAGAAGTTCAATGGAACGGAAATATGTAAAAATGTCA ThrValGinCysThrHisGlyIleLysProValValSerThrGlnLeuLeuLeuAsnGlyGTACAGTACAATGTACACATGGAATTAAGCCAGTGGTGTCAACTCAACTGCTGTTAAATG SerLeuAlaGluGluIleMetIleArgSerGluAsnLeuThrAspAsnThrLysAsn GCAGTCTAGCAGAAGAGAGATAATGATTAGATCTGAAAATCTCACAGACAATACTAAAA IleIleValGlnLeuAsnGluThrValThrIleAsnCysThrArgProGlyAsnAsnThr ACATAATAGTACAGCTTAATGAAACTGTAACAATTAATTGTACAAGGCCTGGAAACAATA 6700 ArgArgGİyIleHisPheGlyProGlyGlnAlaLeuTyrThrThrGlyIleValGlyAsp CAAGAAGAGGGATACATTTCGGCCCAGGGCAAGCACTCTATACAACAGGGATAGTAGGAG IleArgArgAlaTyrCysThrIleAsnGluThrGluTrpAspLysThrLeuGlnGlnValATATAAGAAGAGCATATTGTACTATTAATGAAACAGAATGGGATAAAACTTTACAACAGG AlaValLysLeuGlySerLeuLeuAsnLysThrLysIleIlePheAsnSerSerSerGly TAGCTGTAAAACTAGGAAGCCTTCTTAACAAAACAAAAATAATTTTTAATTCATCCTCAG 6900 GlyAspProGluIleThrThrHisSerPheAsnCysArgGlyGluPhePheTyrCysAsn GAGGGGACCCAGAAATTACAACACACACAGTTTTAATTGTAGAGGGGAATTTTTCTACTGTA ThrSerLysLeuPheAsnSerThrTrpGlnAsnAsnGlyAlaArgLeuSerAsnSerThrATACATCAAAACTGTTTAATAGTACATGGCAGAATAATGGTGCAGAATAATAGTACATAGCA GluSerThrGlySerIleThrLeuProCysArgIleLysGlnIleIleAsnMetTrpGlnCAGAGTCAACTGGTAGTATCACACTCCCATGCAGAATAAAACAAATTATAAATATGTGGC LysThrGlyLysAlaMetTyrAlaProProIleAlaGlyValIleAsnCysLeuSerAsnAGAAAACAGGAAAAGCTATGTATGCCCCTCCCATCGCAGGAGTCATCAACTGTTTATCAA 7100

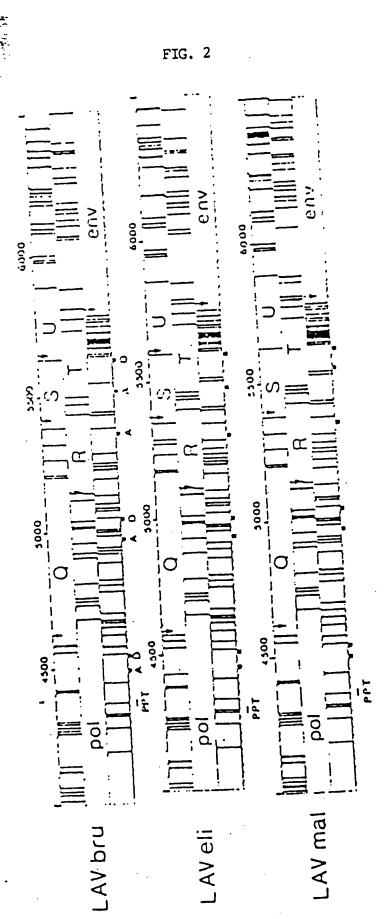
IleThrGlyLeuIleLeuThrArgAspGlyGlyAsnSerSerAspAsnSerAspAsnGlu ATATTACAGGGCTGATATTAACAAGAGATGGTGGAAATAGTGACAATAGTGACAATG

7200

ThrLeuArgProGlyGlyGlyAspMetArgAspAsnTrpIleSerGluLeuTyrLysTyrAGACCTTAAGACCTGGAGGAGGAGATATGAGGGACAATTGGATAAGTGAATTATAAAT GluArgGluLysArgAlaIleGlyLeuGlyAlaMetPheLeuGlyPheLeuGlyAlaAla TGGAAAGAGAAAAAAGAGCAATAGGACTAGGAGCCATGTTCCTTGGGTTCTTGGGAGCAG GlySerThrMetGlyAlaAlaSerLeuThrLeuThrValGlnAlaArgGlnLeuLeuSerCAGGAAGCACGATGGGCGCAGCGTCACTAACGCTGACGGTACAGGCCAGACAGTTACTGT 7400 GlyIleValGlnGlnGlnAsnAsnLeuLeuArgAlaIleGluAlaGlnGlnHisLeuLeu CTGGTATAGTGCAACAGCAAAACAATTTGCTGAGGGCTATAGAGGCGCAACAGCATCTGT GlnLeuThrValTrpGlyIleLysGlnLeuGlnAlaArgValLeuAlaValGluÁrgTyr TGCAACTCACGGTCTGGGGCATTAAACAGCTCCAGGCAAGAGTCCTGGCTGTGGAAAGAT LeuGlnAspGlnArgLeuLeuGlyMetTrpGlyCysSerGlyLysHisIleCysThrThr ACCTACAGGATCAACGGCTCCTAGGAATGTGGGGTTGCTCTGGAAAACACATTTGCACCA 7600 PheValProTrpAsnSerSerTrpSerAsnArgSerLeuAspAspIleTrpAsnAsnMet CATTTGTGCCTTGGAACTCTAGTTGGAGTAATAGATCTCTAGATGACATTTGGAATAATA ThrTrpMetGlnTrpGluLysGluIleSerAsnTyrThrGlyIleIleTyrAsnLeuile TGACCTGGATGCAGTGGGAAAAAGAAATTAGCAATTACACAGGCATAATATACAACTTAA 7700 GluGluSerGlnIleGlnGlnGluLysAsnGluLysGluLeuLeuGluLeuAspLysTrp TTGAAGAATCGCAAATCCAGCAAGAAAAGAATGAAAAGGAATTATTGGAATTGGACAAGT AlaSerLeuTrpAsnTrpPheSerIleSerLysTrpLeuTrpTyrIleArgIlePheIle GGGCAAGTTTGTGGAATTGGTTTAGCATATCAAAATGGCTGTGGTATATAAGAATATTCA ArgValArgGlnGlyTyrSerProLeuSerLeuGlnThrLeuLeuProThrProArgGly ATAGAGTTAGGCAGGGATACTCACCTCTGTCGTTGCAGACCCTCCTCCCAACACCGAGGG ProProAspArgProGluGlyIleGluGluGluGluGlyGlyGluGlnGlyArgGlyArgSerGACCACCCGACAGGCCGAAGGAATAGAAGAAGAAGGTGGAGAGCAAGGCAGAGCAGAT 8000 IleArgLeuValAsnGlyPheSerAlaLeuIleTrpAspAspLeuArgAsnLeuCysLeuCAATTCGATTGGTGAACGGATTCTCAGCACTTATCTGGGACGACCTGAGGAACCTGTGCC PheSerTyrHisArgLeuArgAspLeuLeuLeuIleAlaThrArgIleValGluLeuLeu TCTTCAGTTACCACCGCTTGAGAGACTTACTCTTAATTGCAACGAGGATTGTGGAACTTC GlyArgArgGlyTrpGluAlaLeuLysTyrLeuTrpAsnLeuLeuGlnTyrTrpGlyGlnTGGGACGCAGGGGGGGAAGCCCTCAAATATCTGTGGAATCTCCTGCAATATTGGGGTC 8200

#### FIG. 7H

GluLeuLysAsnSerAlaIleSerLeuLeuAsnThrThrAlaIleAlaValAlaGluCys AGGAACTGAAGAATAGTGCTATTAGCTTGCTTAATACCACAGCAATAGCAGTAGCTGAAT ThrAspArgValIleGluIleGlyGlnArgPheGlyArgAlaIleLeuHisIleProArg GCACAGATAGGGTTATAGAAATAGGACAAAGATTTGGTAGAGCTATTCTCCACATACCTA 8300 MetGlyGlyLysTrpSerLys EW-ArgIleArgGlnGlyPheGluArgAlaLeuLeu GAAGAATTAGACAGGGCTTCGAAAGGGCTTTGCTATAACATGGGTGGCAAGTGGTCAAAA 8400 SerSerIleValGlyTrpProLysIleArgGluArgIleArgArgThrProProThrGluAGTAGCATAGTAGGATGGCCTAAGATTAGGGAAAGAATAAGACGAACTCCCCCAACAGAA ThrGlyValGlyAlaValSerGlnAspAlaValSerGlnAspLeuAspLysCysGlyAlaACAGGAGTAGGAGCAGTATCTCAAGATGCAGTATCTCAAGATTTAGATAAATGTGGAGCA GluValGlyPheProValArgProGlnValProLeuArgProMetThrTyrLysGlyAla GAGGTAGGCTTTCCAGTCCGTCCTCAGGTACCTTTAAGACCAATGACTTATAAAGGAGCT PheAspLeuSerHisPheLeuLysGluLysGlyGlyLeuAspGlyLeuValTrpSerPro TTTGATCTCAGCCACTTTTTAAAAGAAAAGGGGGGGACTGGATGGGTTAGTTTGGTCCCCA GlnAsnTyrThrProGlyProGlyIleArgPheProLeuThrPheGlyTrpCysPheLysCAGAATTACACACCAGGGCCAGGGATTAGATTCCCACTGACCTTCGGATGGTGCTTTAAG LeuValProMetSerProGluGluValGluGluAlaAsnGluGlyGluAsnAsnCysLeuTTAGTACCAATGAGTCCAGAGGAAGTAGAGGAGGCCAATGAAGGAGAACAACTGTCTG 8900 PheAspSerSerLeuAlaLeuArgHisArgAlaArgGluĠlnHisProGluTyrTyrLys TTTGACAGCAGCCTAGCACTAAGACACAGAGCCAGAGAACACATCCGGAGTACTACAAA F← 9000 AspCys|
GACTGCTGACACAGAAGTTGCTGACAGGGGACTTTCCGCTGGGGACTTTCCAGGGGAGGC GTAACTTGGGCGGGACCGGGGAGTGGCTAACCCTCAGATGCTGCATATAAGCAGCTGCTT TTCGCCTGTACTGGGTCTCTTGTTAGACCAGGTCGAGCCCGGGAGCTCTCTGGCTAGC AAGGAACCCÁCTGCTTAAGCCTCAATAAAGCTTGCCTTGÁGTGCCTCAA



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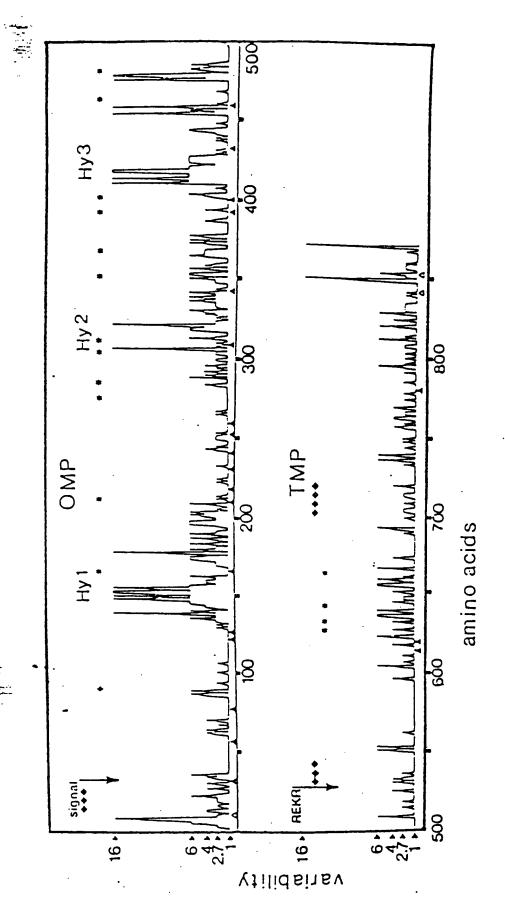
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Ala Pr GCO Thr Pr ACO Ara AGA GAGA CA Val	Pic Ti Sold Cin Vin AG	G eec ric A uA uA he	A Price And A G G I	CA OIA SIA 1914 S A UA 1e	C.G.G.G.IUA.V.G.GG.L	CA 15A 15A 15A 15A 15A 15A 15A 15A 15A 15	A G S G L T G C L A G L A A S V	A 1GG ePT aTT 1 G 1T	T yl G uh T l y A e A l	GA LYAA LYAA LYAA LYAA LYAA LYAA LYAA LY	A STG781G FTC LY A TAIL	A B G O V Y G P O T G C L T G	GA PCO SPT . hLT . 1 A . eT . 1:	AC A A C A A C A A C A C A C A C A C A	TIGG TGG EAG E T TC Y	G G G G G G G G G G G G G G G G G G G	CA GIA GIA A	C: ull si A: A: A: A: A: A: A: A: A: A: A: A: A:	TG PAPIT GIGG PTC GI GA LAA GI	AG Per Country Ag Ag Ag Ag Ag Ag Ag Ag Ag Ag Ag Ag Ag	L.C. SILA. ILA. ILA. ILA. ILA. ILA. ILA. ILA.	GA CSUTT PLEATA INSAA AI TO PLA	CA YE LA A LEE TA LEE TA A LEE	Ind Grand State of Land State	A G I S A G I L C I E T G I C I	lat.Grc.Luc.AGOAA.eG	ASAA 1 TAAA CO CO CO CO CO CO CO CO CO CO CO CO CO	TEA STT TET T A MA I	hi Pi Ti hi Pi Co Ci Gi Gi Gi Ti	Per A O G G G G G G G G G G G G G G G G G G	her resident to the second of	TA AUG TSA AG GG GG GG GG GG GG GG GG GG GG GG GG	GG · 1 P C · hGC · r AG · 1 C · 1 G · 1	IG arch Crick State A yG y	TA STA SIGG POC & A SIGG LY	y A no hi C y li A o li	STA AUG VAIG	III FAC all aler of A let y	P a C G n G S V u G G G A	III . O.T.C. UYAO 1 SC. T. A. YA . a	P -0-
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Ala Pr GCO Thr Pr ACO Ara AGA GAGA CA Val	Pic Ti Sold Cin Vin AG	G eec ric A uA uA he	A Price And A G G I	CA OIA SIA 1914 S A UA 1e	C.G.G.G.IUA.V.G.GG.L	CA 15A 15A 15A 15A 15A 15A 15A 15A 15A 15	A G S G L T G C L A G L A A S V	A 1GG ePT aTT 1 G 1T	T yl G uh T l y A e A l	GA LyA AA AA GG GA AA AA	A SEG781G FEC LY A TEA	A B G O V Y G P O T G C L T G	G. 127 CO 1PT · h LT · l · A · eT · l · A	AC A A C A A C A A C A C A C A C A C A	TIGG TGG EAG E T TC Y	G G G G G G G G G G G G G G G G G G G	CA GIAGG PAST LY AA GIG AS	C: ull si A: A: A: A: A: A: A: A: A: A: A: A: A:	TG PAPIT GIGG PTC GI GA LAA GI	AG Per Country Ag Ag Ag Ag Ag Ag Ag Ag Ag Ag Ag Ag Ag	L.C. SILA. ILA. ILA. ILA. ILA. ILA. ILA. ILA.	GA CeuTT Pleat T nI SAA aI T C PIA	CA YE LA A LEE TA LEE TA A LEE	Ind Grand State of Land State	A G I S A G I L C I E T G I C I	lat.Grc.Luc.AGOAA.eG	ASAA 1 TAAA CO CO CO CO CO CO CO CO CO CO CO CO CO	TEA STT TET T A MA I	hi Pi Ti hi Pi Co Ci Gi Gi Gi Ti	Per A O G G G G G G G G G G G G G G G G G G	her resident to the second of	TA AUG TSA AG GG GG GG GG GG GG GG GG GG GG GG GG	GG · 1 P C · hGC · r AG · 1 C · 1 G · 1	IG arch Crick State A yG y	TA STA SIGG POC & A SIGG LY	y A no hi C y li A o li	STA AUG VAIG	III FAC all aler of A let y	P a C G n G S V u G G G A	III . O.T.C. UYAO 1 SC. T. A. YA . a	P -0-

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GlnIleGly	ysThrLe	uAsnPheProI	leSerProI1	eGluThrValProValLysLe
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LysProGlyN	fetAsnG1	vProAreValL	veGlaTraPr	LeuThrGluGluLysIleLy:
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GUALIAACAG	AAATIIG	TAAAGATATGG	AAAGGAAGG	AAAATTTTAAAAATTGGGCC
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LysLeuValA	snPheAr	gGluLeuAsnLy	ysArgThrGl	AspPheTrpGluValGlnLei
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GlyIleProH	isProAl	aGlyLeuLysLy	sLysLysSer	ValThr ValLeuAsp ValGly
GGAATACCAC	ATCCTGC	TGGGTTGAAAA	AGAAAAATCA	GTCACAGTATTGGATGTGGG
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AspAlaTyrP	heSerVa	1ProLeuAspG1	luAspPheArg	LysTyrThrAlaPheThrIle
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ProSerIleA	snAsnG1	uThrProGlyI1	eArgTvrGln	TyrAsnValLeuProGlnGly
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TroLvsGlvS	erProAl	allePheGlnSe	TSerWetThr	LysIleLeuGluProPheArg
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ThrivsAspP			nTurketken	AspLeuTyrValGlySerAsp
ACAAAAAATC	CAGAAAT	ACTCATATACCA	ATACATCCAT	GATTTGTATGTAGGGTCTGAT
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GIULEBHIST	TOASPLY	STrpThrValGl	nProlleGln	LeuProAspLysGluSerTrp
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GGAATTAAAG	TAAAGCA.	ATTATGTAAACT	CCTTAGGGGA	GCAAAAGCACTAACAGACATA
•		•	•	. 3000
ValProLeuT	hrAlaG1	uAlaGluLeuGl	· uLeuAlaGlu	3000 . AsnArgGluIleLeuLysGlu AACAGGGAAATTCTAAAAGAA

ProvelEisGlyValTyrTyrAspProSerLysAspLeuIleAlaGluIleGlnLysGln CCAGTO LATGGGGTATATTATGACCCATCAAAAGACTTAATAGCAGAAATACAGAAGCAG GlyGlaGlyGlnTrpThrTyrGlnIleTyrGlnGluGlnTyrLysAsnLeuLysThrGly GGGCAAGGTCAATGGACATATCAAATATACCAAGAGCAATATAAAAATCTGAAAACAGGG LysTyrAlaArgIleLysSerAlaHisThrAsnAspValLysGlnLeuThrGluAlaVal AAGTATGCAAGAATAAAGTCTGCCCACACTAATGATGTAAAACAATTAACAGAAGCAGTG 3200 GlnLysIleAlaGlnGluSerIleValIleTrpGlyLysThrProLysPheArgLeuPro CAAAAGATAGCCCAAGAAAGCATAGTAATATGGGGAAAAACTCCTAAATTTAGACTACCC IleGlnLysGluThrTrpGluAlaTrpTrpThrGluTyrTrpGlnAlaThrTrpIlePro ATACAAAAGAAACATGGGAGGCATGGTGGACAGAATATTGGCAAGCCACCTGGATCCCT GluTrpGluPheValAsnThrProProLeuValLysLeuTrpTyrGlnLeuGluThrGlu GAATGGGAGTTTGTCAATACTCCTCCCCTAGTAAAACTATGGTACCAGTTAGAAACAGAA ProlleValGlyAlaGluThrPheTyrValAspGlyAlaAlaAsnArgGluThrLysLys CCCATAGTAGGÁGCAGAAACTTTCTATGTAGATGGGGCAGCTAATAGÁGAAACTAÁAAAG GlyLysAlaGlyTyrValThrAspArgGlyArgGlnLysValValSerLeuThrGluThr GGAAAAGCAGGATATGTTACTGACAGAGGAAGACAAAGGTTGTCTCCTTAACTGAAACA Thr Asn Glu Leu Glu Ala Ile His Leu Ala Leu Glu Asp Ser Gly Ser GluACAAATCAGAAGACTGAATTACAAGCAATCCACTTAGCTTTACAGGATTCAGGATCAGAA ValAsnIleValThrAspSerGlnTyrAlaLeuGlyIleIleGlnAlaGlnProAspLys GTAAACATAGTAACAGACTCACAGTATGCATTAGGGATTATTCAAGCACAACCAGATAAA SerGluSerGluIleValAsnGlnIleIleGluGlnLeuIleGlnLysAspLysValTyr AGTGAATCAGAGATTGTTAATCAAATAATAGAGCAATTAATACAGAAGGACAAGGTCTAC LeuSerTrpValProAlaHisLysGlyIleGlyGlyAsnGluGlnValAspLysLeuVal CTGTCATGGGTACCAGCACAAAGGGATTGGAGGAAATGAACAAGTAGATAAATTAGTC SerSerGlyIleArgLysValLeuPheLeuAspGlyIleAspLysAlaGlnGluGluHis 3800 GluLyaTyrHisSerAsnTrpArgAlaHetAlaSerAspPheAsnLeuProProIleVal GAAAATATCACAGCAATTGGAGAGCAATGGCTAGTGACTTTAATCTACCACCTATAGTA AlaLysGluIleValAlaSerCysAspLysCysGlnLeuLysGlyGluAlaMetHisGly GlnValAspCysSerProGlyIleTrpGlnLeuAspCysThrHisLeuGluGlyLysIle CAAGTAGACTGTAGTCCAGGGATATGGCAATTAGATTGCACACATCTAGAAGGAAAAATA IleIleValAlaValHisValAlaSerGlyTyrIleGluAlaGluValIleProAlaGlu ATCATAGTAGCAGTCCATGTAGCCAGTGGATATATAGAAGCAGAAGTTATCCCAGCAGAA ThrGlyGlnGluThrAlaTyrPheIleLeuLysLeuAlaGlyArgTrpProValLysVal ACAGGACAGGACAGCATÁCTTATACTAAAATTAGCAGGAAGATGGCCAGTAAAAGTA 4100

ValRendanGTySerAsnPheThrSerAlaAlaValLysAlaAlaCysTrpTrp GTACA SAGACAATGGCAGCAATTTCACCAGTGCTGCAGTTAAAGCAGCCTGTTGGTGG AlaAspIleLysGlnGluPheGlyIleProTyrAsnProGlnSerGlnGlyValValGlu GCAAATATCAAACAGGAATTTGGAATTCCCTACAACCCCCAAAGTCAAGGAGTAGTGGAA SerMetAsnLysGluLeuLysLysIleIleGlyGlnValArgGluGlnAlaGluEisLeu\_ TCTATGAATAAGGAATTAAAGAAAATCATAGGGCAGGTAAGAGAGCAAGCTGAACACCTT LysThrAlaValGlnHetAlaValPheIleHisAsnPheLysArgLysGlyGlyIleGly AAGACAGCAGTACAAATGGCAGTGTTCATTCACAATTTTAAAAGAAAAGGGGGGGATTGGG GlyTyrSerAlaGlyGluArgIleIleAspMetIleAlaThrAspIleGlnThrLysGlu GGGTACAGTGCAGGGGAAAGAATAATAGACATGATAGCAACAGACATACAAACTAAAGAA-LeuGlnLysGlnIleThrLysIleGlnAsnPheArgValTyrTyrArgAspAsnArgAsp TTACAAAAACAAATTACAAAAATTCAAAATTTTCGGGTTTATTACAGGGACAACAGAGAC ProlleTrpLysGlyProAlaLysLeuLeuTrpLysGlyGluGlyAlaValValIleGln CCAATTTGGAAAGGACCAGCAAAACTACTCTGGAAAGGTGAAGGGGCAGTAGTAATACAG AspAsnSerAspIleLysValValProArgArgLysAlaLysIleIleArgAspTyrGly MetGlu GACAATAGTGATATAAAGGTAGTACCAAGAAGAAAAGCAAAAATCATTAGGGATTATGGA LysGlnMetAlaGlyAspAspCysValAlaGlyGlyGlnAspGluAsp AsnArgTrpGlnValMetIleValTrpGlnValAspArgHetArgIleArgThrTrpHis AAACAGATGGCAGGTGATGATTGTGTGGCAGGTGGACAGGATGAGGATTAGAACATGGCA SerLeuValLysHisHisHisHetTyrValSerLysLysAlaLysAsnTrpPheTyrArgHis CAGTTTAGTAAAACATCATATGTATGTCTCAAAGAAAGCTAAAAATTGGTTTTATAGACA HisTyrGluSerArgHisProLysValSerSerGluValHisIleProLeuGlyAspAla TCACTATGAAAGCAGGCATCCAAAAGTAAGTTCAGAAGTACACATCCCACTAGGGGATGC ArgLeuValValArgThrTyrTrpGlyLeuGlnThrGlyGluLysAspTrpHisLeuGly TAGATTAGTAGTAAGAACATATTGGGGTCTGCAAACAGGAGAAAAAGACTGGCACTTGGG HisGlyValSerIleGluTrpArgGlnLysArgTyrSerThrGlnLeuAspProAspLeu TCATEGGTCTCCATAGAATGGAGGCAGAAAAGATATAGCACACAACTAGATCCTGACCT AlphoGlnLeuIleEisLeuTyrTyrPheAspCysPheSerGluSerAlaIleArgGln AG CAGA CCAA CTGATTCAT CTGTACTATTTTGATTGTTTTTCAGAATCTGCCATAAGACA AlaIleLeuGlyHisIleValSerProArgCysAspTyrGln&laGlyHisAsnLysVal AGCCATATTAGGACATATAGTTAGTCCTAGGTGTGATTATCAAGCAGGACATAACAAGGT 5000 GlySerLeuGlnTyrLeuAlaLeuThrAlaLeuIleAlaProLysLysThrArgProPro AGGAT CTTTACAGTATTTG GCACTAACAGCATTAATAG CACCAAAAAAGACAAGGCCACC HetGluGlnAlaProAlaAspGlnGly LeuProSerValArgLysLeuThrGluAspArgTrpAsnLysProGlnGlnThrLysGly

TTTGCCTAGTGTTAGGAAGCTAACAGAAGATAGATGGAACAAGCCCCAGCAGACCAAGGG

LuProllisAsnGluTrpThrLeuGluLeuLcuGluGluLeuLysGlnGlu HisArgGlyS rHisThrMetAsnGlyHis CCACAGAGGGAGCCACACAATGAATGGACATTAGAACTTTTAGAGGAGCTTAAGCAAGAA AlaValArgHisPheProArgIleTrpLeuEisSerLeuGlyGlnHisIleTyrGluThr GCTGTCAGACACTTTCCTAGGATATGGCTCCATAGTTTAGGACAACATATCTATGAAACT TyrGlyAspThrTrpGluGlyValGluAlaIleIleArgSerLeuGluGluLeuLeuPhe TATGGGGATACCTGGGAAGGAGTTGAAGCTATAATAAGAAGTCTGCAACAACTGCTGTTT 5300 IleHisPheArgIleGlyCysGlnHisSerArgIleGlyIleThrArgGlnArgArgAla ATTCATTTCAGAATTGGGTGTCAACATAGCAGAATAGGCATTACTCGACAGAGAAGAGCA ArgAsnGlySerSerArgSer MetAspProValAspProAsnLeuGluProTrpAsnHisProGlySerGlnProArg AGAALATGGATCCAGTAGATCCTAACTTAGAGCCCTGGAACCATCCAGGGAGTCAGCCTAG ThrProCysAsnLysCysTyrCysLysLysCysCysTyrHisCysGlnHetCysPheIle GACGCCTTGTAATAAGTGTTATTGTAAAAAGTGCTGCTATCATTGCCAAATGTGCTTCAT ThrLysGlyLeuGlyIleSerTyrGlyArgLysLysArgArgGlnArgArgArgProPro AACGAAAGGCTTAGGCATCTCCTATGGCAGGAAGAGCGGAGACAGCGACGAAGACCTCC GlnGlyAsnGlnAlaHisGlnAspProLeuProGluGln TCAGGGCAATCAGGCTCATCAAGATCCTCTACCAGAGCAG TAAGTAGTATATGTAATACA 5600 ACCTTTAGTGATATTAGCAATAGTAGCATTAGTAGTAACGCTAATAATAGCAATAGTTGT 5700 GTGGACCATAGTATTTATAGAAATTAGGAAAATAAGAAGACAAAGGAAAATAGACAGGTT NetArgValArgGluIleGlnArg GATTGATAGAATAAGAGAAGAGCAGAAGATAGTGGCAATGAGAGTGAGGGAGATACAGA 5 **doo** AsnTyrGlnAsnTrpTrpArgTrpGlyMetHetLeuLeuGlyMetLeuMetThrCysSer GGAATTATCAAAACTGGTGGAGATGGGGCATGATGCTCCTTGGGATGTTGATGACCTGTA IleAlaGluAspLeuTrpValThrValTyrTyrGlyValProValTrpLysGluAlaThr GTATTG CACAAGATTTGTGGGTTACAGTTTATTATGGGGTACCTGTGTGGAAAGAAGCAA Thr TibleuPheCysAlaSerAspAlaLysSerTyrGluThrGluValHisAsnIleTrp CCACTAGECTATTTTGTGCATCAGATGCTAAATCATATGAAACAGAAGTACATAACATCT AlaThrHisAlaCysValProThrAspProAsnProGlnGluIleGluLeuGluAsnVal ThrGluGlyPheAsnMetTrpLysAsnAsnMetValGluGlnMetHisGluAspIleIle TCACAGAAGGGTTTAACATGTGGAAAAATAACATGGTGGAGCAGATGCATGAGGATATAA 6100

SerLenTrpAspGlnSerLeuLyaPr CysValLysLeuThrProLeuCysValThrLeuTCAGTTTTEGGATCAAAGCCTAAAACCATGTGTAAAGCTAACCCCACTCTGTGTCACTT

AsnCysThrAsnValAsnGlyThrAlaValAsnGlyThrAsnAlaGlySerAsnArgThr
TAAACTGCACTAATGTGAATGGGACTGCTGTGAATGGGACTAATGCTGGGAGTAATAGGA
6200

AsnAlaGluLeuLysMetGluIleGlyGluValLysAsnCysSerPheAsnIleThrProCTAATGCAGAATTGAAAATGGAAATTGGAGAAGTGAAAAACTGCTCTTTCAATATAACCC

ValGlySerAspLysArgGlnGluTyrAlaThrPheTyrAsnLeuAspLeuValGlnIle CAGTAGGAAGTGATAAAAGGCAAGAATATGCAACTTTTTATAACCTTGATCTAGTACAAA

AspAspSerAspAsnSerSerTyrArgLeuIleAsnCysAsnThrSerValIleThrGln
TAGATGATAGTGATAATAGTTATAGGCTAATAAATTGTAATACCTCAGTAATTACAC

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AlaIleLeuLysCysAsnAspLysLysPheAsnGlyThrGluIleCysLysAsnValSer TTGCAATTCTAAAGTGTAATGATAAGAAGTTCAATGGAACGGAAATATGTAAAAATGTCA 6500

Thr ValGlnCysThrHisGlyIleLysProValValSerThrGlnLeuLeuLeuAsnGlyGTACAGTACAATGTACACATGGAATTAAGCCAGTGGTGTCAACTCAACTGCTGTTAAATG

SerLeuAlaGluGluIleMetILeArgSerGluAsnLeuThrAspAsnThrLysAsnGCAGTCTAGCAGAAAAGAGATAATGATTAGATCTGAAAATCTCACAGACAATACTAAAA

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ArgArgGlyIleEisPheGlyProGlyGlnAlaLeuTyrThrThrGlyIleValGlyAsp CAAGAAGAGGGATACATTTCGGCCCAGGGCAAGCACTCTATACAACAGGGATAGTAGGAG

IleArgArgAlaTyrCysThrIleAsnGluThrGluTrpAspLysThrLeuGlnGlnVal ATATAAGAAGAGCATATTGTACTATTAATGAAACAGAATGGGATAAAACTTTACAACAGG 6800

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GlyAspProGluIleThrThrHisSerPheAsnCysArgGlyGluPhePheTyrCysAsnGAGGGGACCCAGAAATTACAACACACAGTTTTAATTGTAGAGGGGAATTTTTCTACTGTA

Thr & Color Thr TrpGlnAsnAsnGlyAlaArgLeuSerAsnSerThr ATACATCAAAACTGTTTAATAGTACATGGCAGAATAATGGTGCAAGACTAAGTAATAGCA

GluSerThrGlySerIleThrLeuProCysArgIleLysGlnIleIleAsnHetTrpGlnCAGAGTCAACTGGTAGTATCACACTCCCATGCAGAATAAAACAAATTATAAATATGTGGC

LysThrGlyLysAlaMetTyrAlaProProIleAlaGlyValIleAsnCysLeuSerAsn AGAAAACAGGAAAAGCTATGTATGCCCCTCCCATCGCAGGAGTCATCAACTGTTTATCAA 7100

IleThrGlyLeuIleLeuThrArgAspGlyGlyAsuSerSerAspAsuSerAspAsuGluATATTACAGGGCTGATATTAACAAGAGATGGTGGAAATAGTAGTGACAATAGTGACAATG

7200

Thr Levarg Pr GlyGlyGlyAspMetArgAspAsnTrpIleSerGluLeuTyrLysTyrAGACCTTAAGACCTGGAGGAGGAGATATGAGGGGACAATTGGATAAGTGAATTATATAAAT

GluArgGluLysArgAlaIleGlyLeuGlyAlaHetPheLeuGlyPheLeuGlyAlaAla TGGAAAGAGAAAAAAGAGCAATAGGACTAGGAGCCATGTTCCTTGGGTTCTTGGGAGCAG

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LeuGlnAspGlnArgLeuLeuGlyMetTrpGlyCysSerGlyLysHisIleCysThrThr ACCTACAGGATCAACGGCTCCTAGGAATGTGGGGTTGCTCTGGAAAACACATTTGCACCA 7600

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ThrTrpHetGlnTrpGluLysGluIleSerAsnTyrThrGlyIleIleTyrAsnLeuIleTGACCTGGATGCAGTGGGAAAAAGAAATTAGCAATTACACAGGCATAATATACAACTTAA

GluGluSerGlnIleGlnGlnGluLysAsnGluLysGluLeuLeuGluLeuAspLysTrp TTGAAGAATCGCAAATCCAGCAAGAAAAGAATGAAAAGGAATTATTGGAATTGGACAAGT

AlaSerLeuTrpAsnTrpPheSerIleSerLysTrpLeuTrpTyrIleArgIlePheIleGGGCAAGTTTGTGGAATTGGTTTAGCATATCAAAATGGCTGTGGTATATAAGAATATCA

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ProFroAspArgProGluGlyIleGluGluGluGlyGlyGluGlnGlyArgGlyArgSer GACCACCCGACAGGCCCGAAGGAATAGAAGAAGGAGGTGGAGAGCAAGGCAGAGGCAGAT 8000

IleArgLeuValAsnGlyPheSerAlaLeuIleTrpAspAspLeuArgAsnLeuCysLeuCAATTCGATTGGTGAACGGATTCTCAGCACTTATCTGGGACGACCTGAGGAACCTGTGCC

PheSerTyrHisArgLeuArgAspLeuLeuLeuIleAlaThrArgIleValGluLeuLeu
TCTTCAGTTACCACCGCTTGAGAGACTTACTCTTAATTGCAACGAGGATTGTGGAACTTC

GlyArgArgGlyTrpGluAlaLeuLysTyrLeuTrpAsnLeuLeuGlnTyrTrpGlyGln-TGGGACGCAGGGGGGGGAAGCCCTCAAATATCTGTGGAATCTCCTGCAATATTGGGGTC



GluLeuTysAsnSerAlaIleSerLeuLeuAsnThrThrAlaIleAlaValAlaGluCys AGGAACTGAAGAATAGTGCTATTAGCTTGCTTAATACCACAGCAATAGCAGTAGCTGAAT ThrAspArgValIleGluIleGlyGlnArgPheGlyArgAlaIleLeuEisIleProArg GCACAGATAGGGTTATAGAAATAGGACAAAGATTTGGTAGAGCTATTCTCCACATACCTA 8300 HeEGlyGlyLysTrpSerLys EW. ArglleArgGlnGlyPheGluArgAlaLeuLeu GAAGAATTAGACAGGGCTTCGAAAGGGCTTTGCTAFAACATGGGTGGCAAGTGGTCAAAA SerSerIleValGlyTrpProLysIleArgGluArgIleArgArgThrProProThrGlu AGTAGCATAGTAGGATGGCCTAAGATTAGGGAAAGAATAAGACGAACTCCCCCAACAGAA ThrGlyValGlyAlaValSerGlnAspAlaValSerGlnAspLeuAspLysCysGlyAla ACAGGAGTAGGAGCAGTATCTCAAGATGCAGTATCTCAAGATTTAGATAAATGTGGAGCA 8500 AlaAlaSerSerSerProAlaAlaAsnAsnAlaSerCysGluProProGluGluGluGlu GCCGCAAGCAGCAGCCAGCAATAATGCTAGTTGTGAACCACCAGAAGAAGAGAGGAG GluValGlyPheProValArgProGluValProLeuArgProMetThrTyrLysGlyAla GAGGTAGGCTTTCCAGTCCGTCCTCAGGTACCTTTAAGACCAATGACTTATAAAGGAGCT PhcAspLeuSerHisPheLeuLysGluLysGlyGlyLeuAspGlyLeuValTrpSerPro TTTGATCTCAGCCACTTTTTAAAAGAAAGGGGGGACTGGATGGGTTAGTTTGGTCCCCA 8700 LysArgGlnGluIleLeuAspLeuTrpValTyrHisThrGlnGlyTyrPheProAspTrp AAAAGACAAGAAATCCTTGATCTGTGGGTCTACCACACAAGGCTACTTCCCTGATTGG GlnAsnTyrThrProGlyProGlyIleArgPheProLeuThrPheGlyTrpCysPheLys CAGAATTÁCACACCAGGGCCAGGGATTAGÁTTCCCACTGACCTTCGGÁTGGTGCTTTAÁG LeuValProHetSerProGluGluValGluGluAlaAsnGluGlyGluAsnAsnCysLeu TTAGTACCAATGAGTCCAGAGGAAGTAGAGGAGGCCAATGAAGGAGAACAACTGTCTG LeuEisProIleSerGlnEisGlyHetGluAspAlaGluArgGluValLeuLysTrpLys 8900 PheAspSerSerLeuAlaLeuArgHisArgAlaArgGluGlnEisProGluTyrTyrLys TTTGACAGCAGCCTAGCACTAAGACACAGAGCCAGAGAACAACATCCGGAGTACTACAAA AspCys GACTGCTGACACAGAAGTTGCTGACAGGGGACTTTCCGCTGGGGACTTTCCAGGGGAGGC GTAACTTGGGCGGGACCGGGGAGTGGCTAACCCTCAGATGCTGCATATAAGCAGCTGCTT TTCGCCTGTACTCGGTCTCTTGTTAGACCAGGTCGAGCCCGGGAGCTCTCTGGCTAGC  $JJ \stackrel{\longrightarrow}{\longrightarrow} R$ AAGGAACCCACTGCTTAAGCCTCAATAAAGCTTGCCTTGAGTGCCTCAA

9200